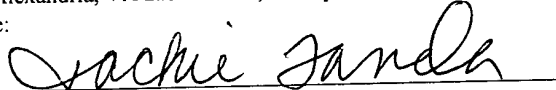


EXPRESS MAIL CERTIFICATE

I hereby certify that the above paper/fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to the Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on **September 24, 2003**, Express Mail No. **EV298900372US**. Signature of Person mailing paper/fee:


Jackie Tanda

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Date: September 24, 2003

Jeffrey Y. LIU and Yen LU

Serial No.: To Be Assigned

Group Art Unit: To Be Assigned

Filed: September 24, 2003

Examiner: To Be Assigned

For: PERSISTENT DATA STORAGE FOR METADATA RELATED TO WEB
SERVICE ENTITIES

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. §1.97

Sir:

Pursuant to 37 C.F.R. §1.97 and §1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. The Examiner is requested to make these documents of record. This Information Disclosure Statement is being submitted:

- ☒ With copies (Non-Patent Literature).
- ☐ Without copies. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial No. **, filed **. This protocol conforms with 37 C.F.R. §1.98(d) and M.P.E.P. 609 (A)(2).
- ☒ Without copies. This protocol conforms with 37 CFR 1.98(a)(2)(i), which waives the requirement for submitting a copy of each cited U.S. Patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003.

- With the application; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits, but before the mailing date of a Final Office Action under §1.113, or a Notice of Allowance §1.311. Accompanied by one of:
- ☐ Certification under 37 CFR §1.97(e); or
- ☐ The fee set forth in §1.17(p)
- ☐ A Certification under 37 C.F.R. §1.97(e) is provided below:
- ☐ I hereby certify that each item of information was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- or-
- ☐ I hereby certify that no item of information was cited in a communication from a foreign patent office in a counterpart foreign application or, to the best of my knowledge after making a reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

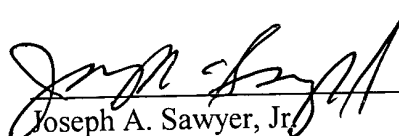
Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

If any unresolved issues remain, please contact Applicant's attorney at the telephone number indicated below. The Commissioner is hereby authorized to charge any fees associated with this communication, or credit any overpayment, to Deposit Account No. 09-0460 (IBM Corporation).

Respectfully submitted,

SAWYER LAW GROUP LLP

September 24, 2003
Date


Joseph A. Sawyer, Jr.
Attorney for Applicant(s)
Reg. No. 30,801
(650) 493-4540

FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
CA920020045US1/2821PSERIAL NO.
To Be Assigned

APPLICANT:

Jeffrey Y. LIU and Yen LU

FILING DATE:

Herewith

GROUP:

To Be Assigned

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

| EXAMINER INITIALS | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE (IF APPRO.) |
|----------------------|--------------------|----------|-----------------|-------|----------|----------------------------|
| | 5 8 0 9 5 0 9 | 09/15/98 | Blackman et al. | 707 | 103 | |
| | 6 0 6 3 1 2 8 | 05/16/00 | Bentley et al. | 703 | 6 | |
| | 5 8 4 8 4 1 9 | 12/08/98 | Hapner et al. | 707 | 303 | |
| | 5 7 3 7 7 3 6 | 04/07/98 | Chang | 707 | 102 | |
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FOREIGN PATENT DOCUMENTS

| DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation |
|--------------------|------|---------|-------|----------|-------------|
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

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|----------|--|
| | Connor, R.C.H. et al., "Using Persistence Technology to Control Schema Evolution," ACM SIGAP Conference, Phoenix, AZ, March 1994, pp. 1-15. |
| | Cooper, R.L. et al., "Constructing Database Systems in a Persistent Environment," Proceedings of the 13 th VLDB Conference, Brighton, 1987 pp. 117-125. |
| EXAMINER | DATE CONSIDERED |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.